



SUMMARY TEST DATA
ON
SAA-218-6-093-13542 Opt. HERM

Customer: _____
 SO No: _____
 Model No: SAA-218-6-093-13542 Opt. HERM
 Serial Pair: PL20162/1646

Tested By: K. Mansfield
 Temperature: 25 Degrees C
 Date: 10/19/2018
 Drawing No: 27613483 Rev: B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	ATT1 (J2 - J8) PL20113	ATT2 (J3 - J9) PL20114	ATT3 (J4 - J10) PL20115	ATT4 (J5 - J11) PL20116	ATT5 (J6 - J12) PL20117	ATT6 (J7 - J13) PL20118	QA QC
1	Frequency Range:	2 to 18 GHz	2 to 18 GHz						PMI QA1
2	Logic High Voltage, VH:	2.0 V Min 3.5 V Max	2.0 V See Typical Characteristics						
3	Logic Low Voltage, VL:	0 V Min 0.8 V Max	0.8 V See Typical Characteristics						
4	Current at VH:	0 mA Min 24 mA Max	0.2 mA See Typical Characteristics						
5	Current at VL:	0 mA Min 24 mA Max	0.06 mA See Typical Characteristics						
6	Load Capacitance:	0 pF Min 35 pF Max	< 35 pF See Typical Characteristics						
7	Rise Time:	1.0 ns Min 2.0 ns Typ 10.0 ns Max	<10 ns See Typical Characteristics						
8	Fall Time:	1.0 ns Min 2.0 ns Typ 10.0 ns Max	<10 ns See Typical Characteristics						
9	Response Time:	100 ns Max (50% Voltage of input signal to 1 dB of final value of RF Attenuation)	<40 ns See Typical Characteristics						
10	Repetition Rate:	Switching From DC to 500 kHz	500 KHz See Typical Characteristics						
11	Insertion Loss:	"1 = 2 dB Insertion Loss" "0 = 20 dB Insertion Loss"	Pass						
12	Tolerance and Flatness:	Low Loss: +1 dB, -2 dB (IL of 1 dB to 4 dB)	IL -0.7 dB -2.2 dB Flatness ±0.8 dB	IL -0.8 dB -2.7 dB Flatness ±1 dB	IL -0.7 dB -2.4 dB Flatness ±0.8 dB	IL -0.7 dB -2.3 dB Flatness ±0.8 dB	IL -0.9 dB -2.8 dB Flatness ±1 dB	IL -0.7 dB -2.7 dB Flatness ±1 dB	
		High Loss: +2 dB, -2 dB (IL of 18 dB to 22 dB)	-18.1 dB -20.8 dB Flatness ±1.4 dB	-18.1 dB -21 dB Flatness ±1.5 dB	-18.1 dB -21.6 dB Flatness ±1.7 dB	-18.1 dB -21.9 dB Flatness ±1.9 dB	-18.2 dB -21.7 dB Flatness ±1.7 dB	-18.2 dB -21.6 dB Flatness ±1.7 dB	
		See Plot							



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13	VSWR:	2.0:1 Max	2:1	1.8:1	1.7:1	1.8:1	1.9:1	1.8:1	PMI QA 1	
			See Plot							
14	Output 1 dB Compression:	18 dBm	>22 dBm See Typical Characteristics							
15	Isolation	50 dB Min (Between any of the six outputs with any switch setting)	<80 dB See Typical Characteristics							
16	Stability:	< -70 dBm Spurious Output Signal*	<-70 dBm See Typical Characteristics							
17	Video Spike Leakage:	< 500 mV Peak to Peak (Measured with a min bandwidth of 200 MHz)	<450 mV See Typical Characteristics							
18	Spectral Activity:	-70 dBm Max	<-70 dBm See Typical Characteristics							
19	DC Voltage:	+5 VDC @ 0.30 A Max -5 VDC @ 0.30 A Max	+5 VDC @ 0.293 A -5 VDC @ 0.225 A							PMI QA 1

*Should be unconditionally stable per the following conditions: A, B, C

- A. With any input or output port terminated in any passive source or load impedance
- B. With input power levels ranging from no input to the maximum that is specified on Table 1 (See Outline Drawing)
- C. With any operating temperature specified in Table 1 (See Outline Drawing)

**AC Ripple Frequency is 600 kHz Typical

***NOTE: Do not normalize insertion loss (low loss path) when measuring high loss path

QA/QC Approval

PMI
QA 1

Date

10/22/18



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